Exercise 13 – Neversink River – Shifting Controls

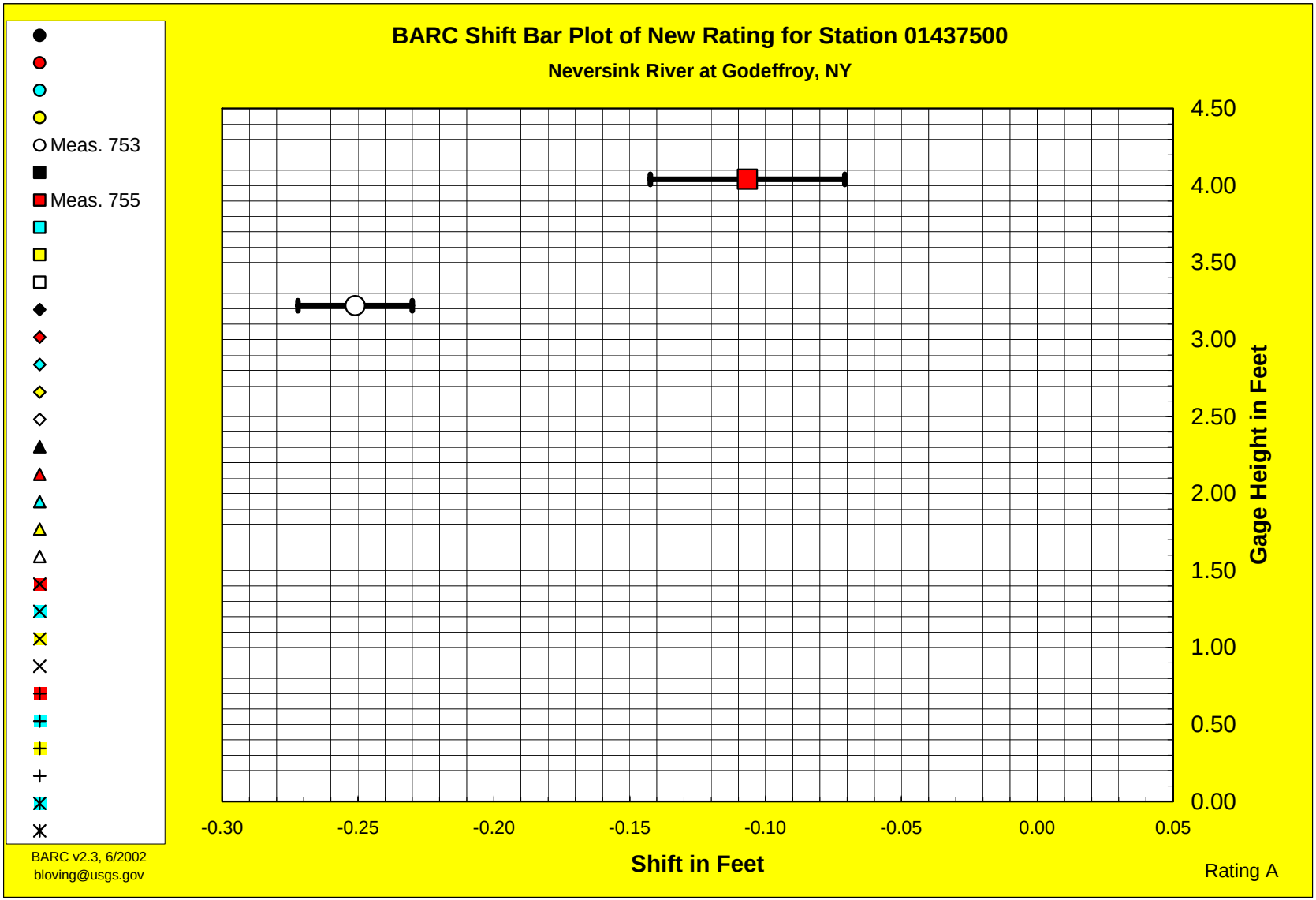
- Use BARC and the following input data to develop shift-by-stage V-diagram(s) for the Neversink River. Make sure to make use of BARC's ability to compute optimum shifts associated with each measurement. Draw the shift curve(s) you come up with on the copy of BARC's shift-bar plot that can be found on the next page. A piece of graph paper is also attached if you would like to use it to plot your rating.

- Fill out the V-diagram table with the three input points you would use to define your V-diagram(s) in ADAPS

Meas. Number	Gage height, in ft.	Discharge, in cfs	Measurement rated
749	3.52	254	G
750	3.7	359	G
751	3.29	153	G
752	3.24	130	G
753	3.22	90.7	G
754	3.58	217	G
755	4.04	532	G

Input data for Rating A	
Rating offset	1.60
Low Endpoint Gage Height	2.60
Low Endpoint Discharge	32
High Endpoint Gage Height	4.04
High Endpoint Discharge	617

V-diagram #1		V-diagram #2 (if needed)	
G.H.	Shift	G.H.	Shift


BARC Shift Bar Plot of New Rating for Station 01437500
Neversink River at Godeffroy, NY
Meas. 753
Meas. 755
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Gage Height in Feet
-0.30
-0.25
-0.20
-0.15
-0.10
-0.05
0.00
0.05
Shift in Feet
Rating A
BARC v2.3, 6/2002
bloving@usgs.gov